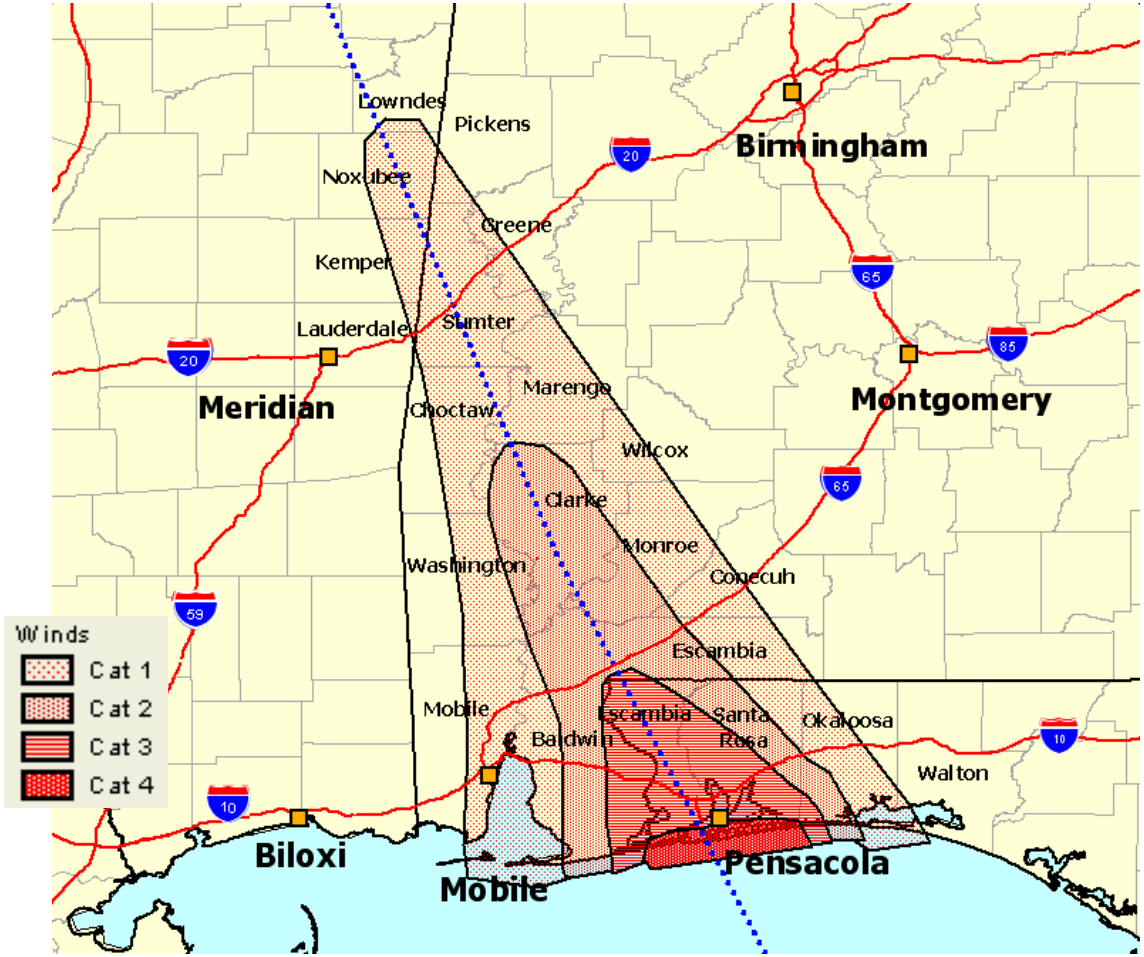
Hurricane Dennis Wind Distribution

Landfall Is Occurring

For Official Use Only!



Most Probable Landfall Wind Distribution

This hurricane scenario is based on a Category 3 storm making landfall in near proximity to Pensacola, FL.

A small Category 4 wind area has been included for barrier islands.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(1500 EDT 07/10/2005)*** forecast.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Wind Field

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date:
1500 EDT
07/10/2005

Hurricane Dennis Debris Model

Landfall Is Occurring

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Most Probable Landfall Debris Model Results

Florida – 9,502,000 yd^3
Alabama – 2,931,000 yd^3
Mississippi – 144,000 yd^3

Model results per county on following page

This hurricane scenario is based on a Category 3 storm making landfall in near proximity to Pensacola, FL

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(1500 EDT 07/10/2005)*** forecast.

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers	**Hurricane Dennis Debris Model**
Sources: HURREVAC LRL-DEBRIS	
Generated By: Terry Siemsen	
Generated Date: 1500 EDT 07/10/2005	Page 2 of 18

Hurricane Dennis Debris Model

Landfall Is Occurring

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State	Yards Per State	County	Yards Per County
Alabama	2,931,000		
		Baldwin	1,257,000
		Choctaw	42,000
		Clarke	280,000
		Conecuh	31,000
		Escambia	219,000
		Greene	16,000
		Marengo	52,000
		Mobile	761,000
		Monroe	98,000
		Pickens	17,000
		Sumter	61,000
		Washington	79,000
		Wilcox	18,000
Florida	9,502,000		
		Escambia	5,723,000
		Okaloosa	1,007,000
		Santa Rosa	2,674,000
		Walton	98,000
Mississippi	144,000		
		Kemper	54,000
		Lauderdale	32,000
		Lowndes	14,000
		Noxubee	44,000
TOTAL	12,577,000		

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Debris Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date:
1500 EDT
07/10/2005

Hurricane Dennis Ice Model

Landfall Is Occurring

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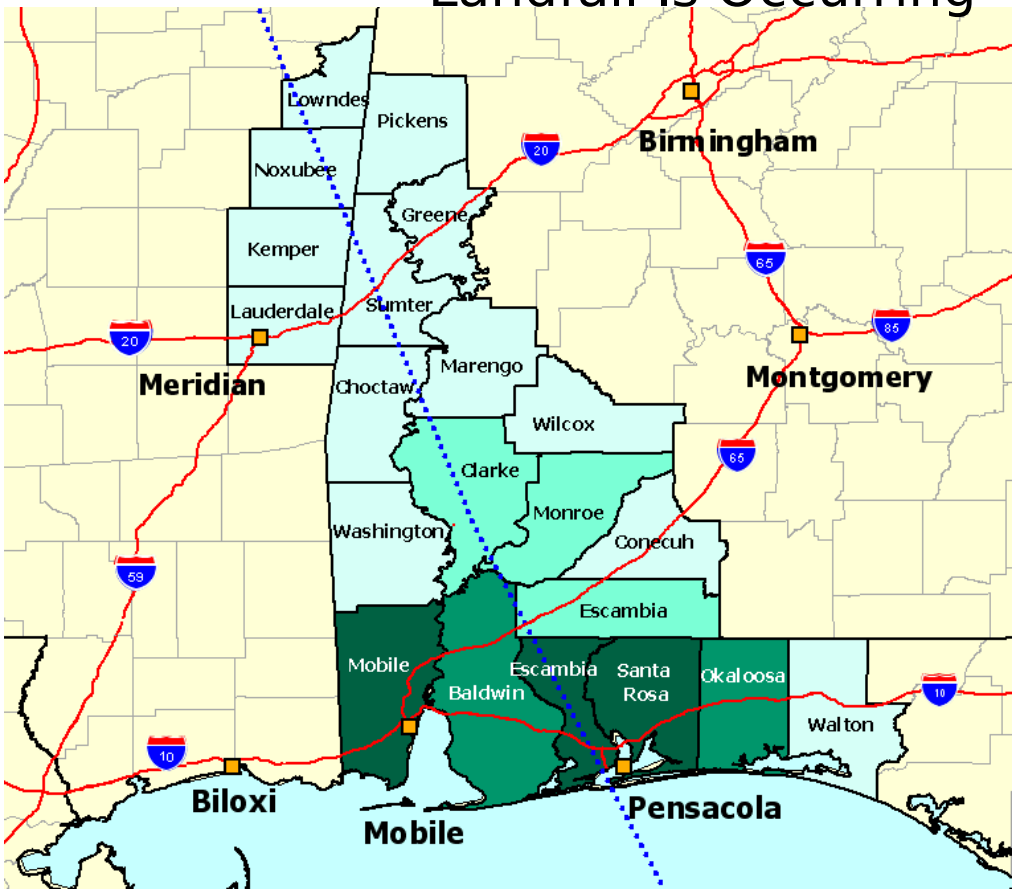


Most Probable Landfall Ice Model Results

Florida – 2,320,000 pounds
Alabama – 1,403,000 pounds
Mississippi – 32,000 pounds

Model results per county on following page

This hurricane scenario is based on a Category 3 storm making landfall in near proximity to Pensacola, FL

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(1500 EDT 07/10/2005)*** forecast. The intensity of this hurricane has been altered to complete model runs.

The amount of ice forecasted is based on Mission Guide Book requirements (8 pounds per day per person) and Ice SME input and represents a first day daily need.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers	**Hurricane Dennis Ice Model**
Sources: HURREVAC LRL-DEBRIS	
Generated By: Terry Siemsen **Generated Date** 1500 EDT 07/10/2005	Page 4 of 18

Hurricane Dennis Ice Model

Landfall Is Occurring

For Official Use Only!

State	Pounds Per State	County	Pounds Per County	Truckloads
Alabama	**1,403,000**			**42**
		Baldwin	381,000	10
		Choctaw	25,000	1
		Clarke	67,000	2
		Conecuh	11,000	1
		Escambia	95,000	3
		Greene	5,000	1
		Marengo	39,000	1
		Mobile	650,000	17
		Monroe	54,000	2
		Pickens	3,000	1
		Sumter	35,000	1
		Washington	27,000	1
		Wilcox	11,000	1
Florida	**2,320,000**			**61**
		Escambia	1,405,000	36
		Okaloosa	380,000	10
		Santa Rosa	531,000	14
		Walton	4,000	1
Mississippi	**32,000**			**4**
		Kemper	6,000	1
		Lauderdale	3,000	1
		Lowndes	2,000	1
		Noxubee	21,000	1
TOTAL	**3,755,000**			**107**

The amount of ice forecasted is based on Mission Guide Book requirements (8 pounds per person) and Ice SME input and represents a first day daily need. The assumption in this scenario is that 60% of the resident population affected by Dennis will have power outage in this area will cause a need for ice.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Ice Model

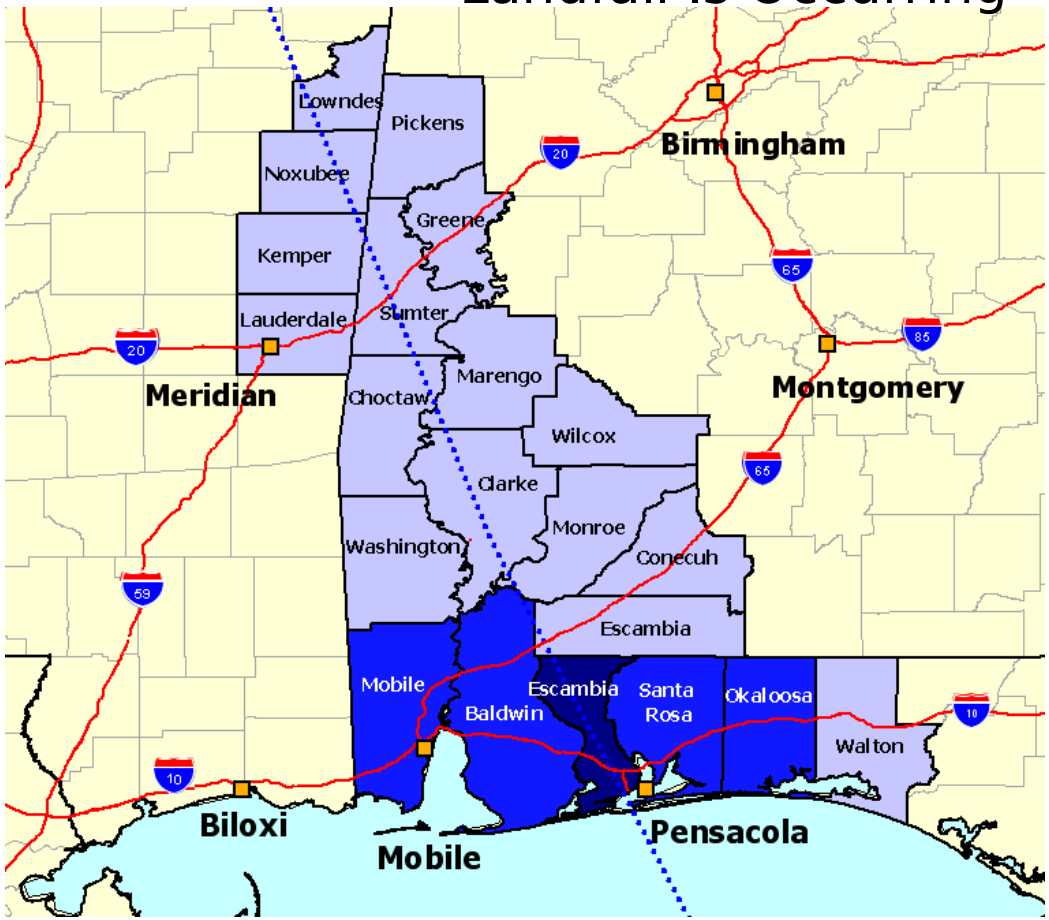
Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
1500 EDT
07/10/2005

Hurricane Dennis Water Model

Landfall Is Occurring



For Official Use Only!

Most Probable Landfall Water Model Results

Florida – 871,000 liters
Alabama – 526,000 liters
Mississippi – 12,000 liters

Model results per county on following page

This hurricane scenario is based on a Category 3 storm making landfall in near proximity to Pensacola, FL

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(1500 EDT 07/10/2005)*** forecast.

The amount of water forecasted is based on Mission Guide Book requirements (3 liters per person per day) and Water SME input and represents a first day daily need.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers	**Hurricane Dennis Water Model**
Sources: HURREVAC LRL-DEBRIS	
Generated By: Terry Siemsen	
Generated Date 1500 EDT 07/10/2005	Page 6 of 18

Hurricane Dennis Water Model

Landfall Is Occurring

For Official Use Only!

State	Liters per State	County	Liters per County	Truckloads
Alabama	**526,000**			**36**
		Baldwin	143,000	8
		Choctaw	9,000	1
		Clarke	25,000	2
		Conecuh	4,000	1
		Escambia	36,000	2
		Greene	2,000	1
		Marengo	15,000	1
		Mobile	244,000	14
		Monroe	20,000	2
		Pickens	1,000	1
		Sumter	13,000	1
		Washington	10,000	1
		Wilcox	4,000	1
Florida	**871,000**			**51**
		Escambia	527,000	30
		Okaloosa	143,000	8
		Santa Rosa	199,000	12
		Walton	2,000	1
Mississippi	**12,000**			**4**
		Kemper	2,000	1
		Lauderdale	1,000	1
		Lowndes	1,000	1
		Noxubee	8,000	1
TOTAL	**1,409,000**			**91**

The amount of water forecasted is based on Mission Guide Book requirements (3 liters per person) and Water SME input and represents a first day daily need. The assumption in this scenario is that 60% of the resident population affected by Dennis will have power outage in this area will cause a need for water.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Water Model

Sources:
HURREVAC
LRL-DEBRIS

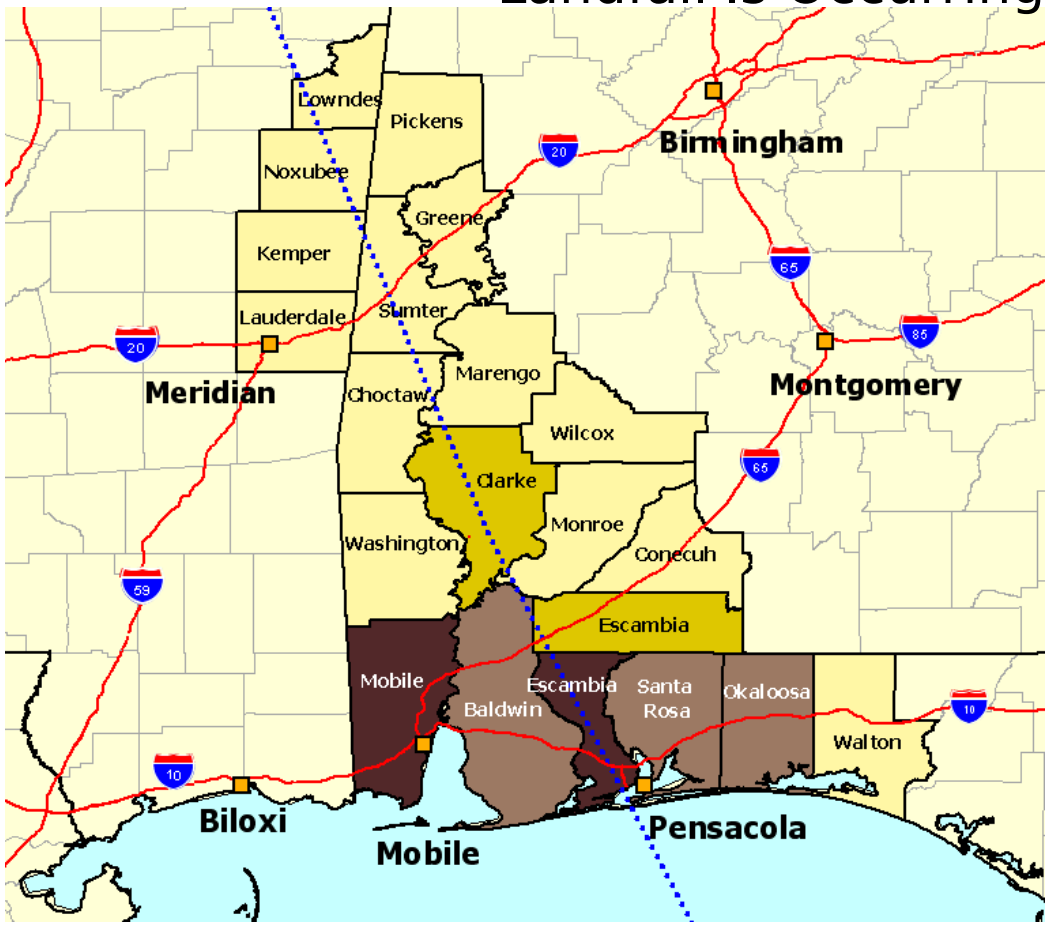
Generated By:
Terry Siemsen

Generated Date
1500 EDT
07/10/2005

Hurricane Dennis Population Model

Landfall Is Occurring

For Official Use Only!



Most Probable Landfall Population Model Results

Florida – 564,000 persons
Alabama – 562,000 persons
Mississippi – 14,000 persons

Model results per county on following page

This hurricane scenario is based on a Category 3 storm making landfall in near proximity to Pensacola, FL

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(1500 EDT 07/10/2005)*** forecast.

The number of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values).

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Population Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
1500 EDT
07/10/2005

Hurricane Dennis Population Model

Landfall Is Occurring

For Official Use Only!

State	Population per State	County	Population per County
Alabama	562,000		
		Baldwin	140,000
		Choctaw	11,000
		Clarke	28,000
		Conecuh	5,000
		Escambia	36,000
		Greene	2,000
		Marengo	16,000
		Mobile	271,000
		Monroe	22,000
		Pickens	1,000
		Sumter	15,000
		Washington	11,000
		Wilcox	4,000
Florida	564,000		
		Escambia	295,000
		Okaloosa	150,000
		Santa Rosa	117,000
		Walton	2,000
Mississippi	14,000		
		Kemper	3,000
		Lauderdale	1,000
		Lowndes	1,000
		Noxubee	9,000
TOTAL	1,140,000		

The number of persons estimated to be within hurricane force winds comes from Census 2000 values.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Population Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
1500 EDT
07/10/2005

Hurricane Dennis Households Model

Landfall Is Occurring

For Official Use Only!

Most Probable Landfall Households Model Results

Florida – 215,000 households
Alabama – 218,000 households
Mississippi – 6,000 households

Model results per county on following page

This hurricane scenario is based on a Category 3 storm making landfall in near proximity to Pensacola, FL

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(1500 EDT 07/10/2005)*** forecast.

The number of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values).

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Households Model

Sources: HURREVAC LRL-DEBRIS

Generated By: Terry Siemsen

Generated Date 1500 EDT 07/10/2005

Hurricane Dennis Households Model

Landfall Is Occurring

For Official Use Only!

State	Households per State	County	Households per County
Alabama	218,000		
		Baldwin	55,000
		Choctaw	4,000
		Clarke	11,000
		Conecuh	2,000
		Escambia	13,000
		Greene	1,000
		Marengo	6,000
		Mobile	104,000
		Monroe	9,000
		Pickens	1,000
		Sumter	6,000
		Washington	4,000
		Wilcox	2,000
Florida	215,000		
		Escambia	111,000
		Okaloosa	59,000
		Santa Rosa	44,000
		Walton	1,000
Mississippi	6,000		
		Kemper	1,000
		Lauderdale	1,000
		Lowndes	1,000
		Noxubee	3,000
TOTAL	439,000		

The number of households estimated to be within hurricane force winds comes from Census 2000 values.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Households Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date:
1500 EDT
07/10/2005

Hurricane Dennis Temporary Roofing Model Results

For Official Use Only!

Most Probable Landfall Temporary Roofing Model Results

Florida – 10,200
Alabama – 4,000
Mississippi – 400

Model results per county on following page

This hurricane scenario is based on a Category 3 storm making landfall in near proximity to Pensacola, FL.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(1500 EDT 07/10/2005)*** forecast.

The amount of temporary roofing that may be required is based on 1% of housing units damaged in CAT 1 wind areas, 3% of housing units damaged in CAT 2 wind areas, 6% of housing units damaged in CAT 3 wind areas, and 5% of housing units damaged in CAT 4 wind areas. This only indicates possible need – not necessarily a mission to repair roofs.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Temp Roofing Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
1500 EDT
07/10/2005

Hurricane Dennis Temporary Roofing Model Results

For Official Use Only!

Landfall Is Occurring

State	Houseunits per State	County	Houseunits per County
Alabama	4,000		
		Baldwin	1,400
		Choctaw	100
		Clarke	300
		Conecuh	100
		Escambia	300
		Greene	100
		Marengo	100
		Mobile	1,000
		Monroe	200
		Pickens	100
		Sumter	100
		Washington	100
		Wilcox	100
Florida	10,200		
		Escambia	6,600
		Okaloosa	1,200
		Santa Rosa	2,300
		Walton	100
Mississippi	400		
		Kemper	100
		Lauderdale	100
		Lowndes	100
		Noxubee	100
TOTAL	14,600		

THIS IS AN EXPERIMENTAL MODEL !! THE VALUES ARE PRELIMINARY AND SHOULD BE CONSIDERED A GUIDE BUT NOT AN ABSOLUTE VALUE !!

The amount of temporary roofing that may be required is based on 1% of housing units damaged in CAT 1 wind areas, 3% of housing units damaged in CAT 2 wind areas, 6% of housing units damaged in CAT 3 wind areas, and 5% of housing units damaged in CAT 4 wind areas. This only indicates possible need – not necessarily a mission to repair roofs.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis emp Roofing Model

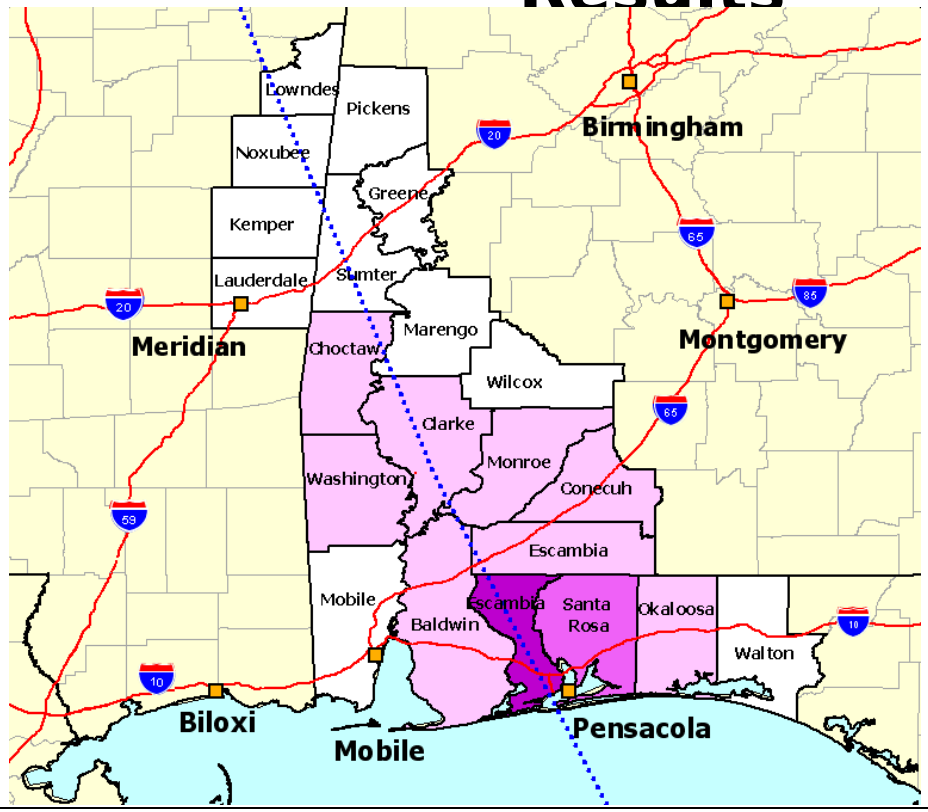
Sources: HURREVAC LRL-DEBRIS

Generated By: Terry Siemsen

Generated Date: 1500 EDT 07/10/2005

Hurricane Dennis Temporary Housing Model Results

For Official Use Only!



Most Probable Landfall Temporary Housing Model Results

Florida – 7,300
Alabama – 2,200
Mississippi – 400

Model results per county on following page

This hurricane scenario is based on a Category 4 storm making landfall in near proximity to Pensacola, FL.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(1500 EDT 07/10/2005)*** forecast.

The amount of temporary housing that may be required is based on no housing need in CAT 1 wind areas, 2% of housing units lost in CAT 2 wind areas, 4% of housing units lost in CAT 3 wind areas, and 7% of housing units lost in CAT 4 wind areas.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis emp Housing Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
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Generated Date
1500 EDT
07/10/2005

Hurricane Dennis Temporary Housing Model Results

For Official Use Only!

Landfall Is Occurring

State	Houseunits per State	County	Houseunits per County
Alabama	2,200		
		Baldwin	800
		Choctaw	100
		Clarke	200
		Conecuh	100
		Escambia	200
		Greene	100
		Marengo	100
		Mobile	100
		Monroe	100
		Pickens	100
		Sumter	100
		Washington	100
		Wilcox	100
Florida	7,300		
		Escambia	4,600
		Okaloosa	600
		Santa Rosa	2,000
		Walton	100
Mississippi	400		
		Kemper	100
		Lauderdale	100
		Lowndes	100
		Noxubee	100
TOTAL	9,900		

THIS IS AN EXPERIMENTAL MODEL !! THE VALUES ARE PRELIMINARY AND SHOULD BE CONSIDERED A GUIDE BUT NOT AN ABSOLUTE VALUE !!

The amount of temporary housing that may be required is based on no housing need in CAT 1 wind areas, 2% of housing units lost in CAT 2 wind areas, 4% of housing units lost in CAT 3 wind areas, and 7% of housing units lost in CAT 4 wind areas .

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis emp Housing Model

Sources:
HURREVAC
LRL-DEBRIS

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07/10/2005

Hurricane Dennis Hospitals

Landfall Is Occurring

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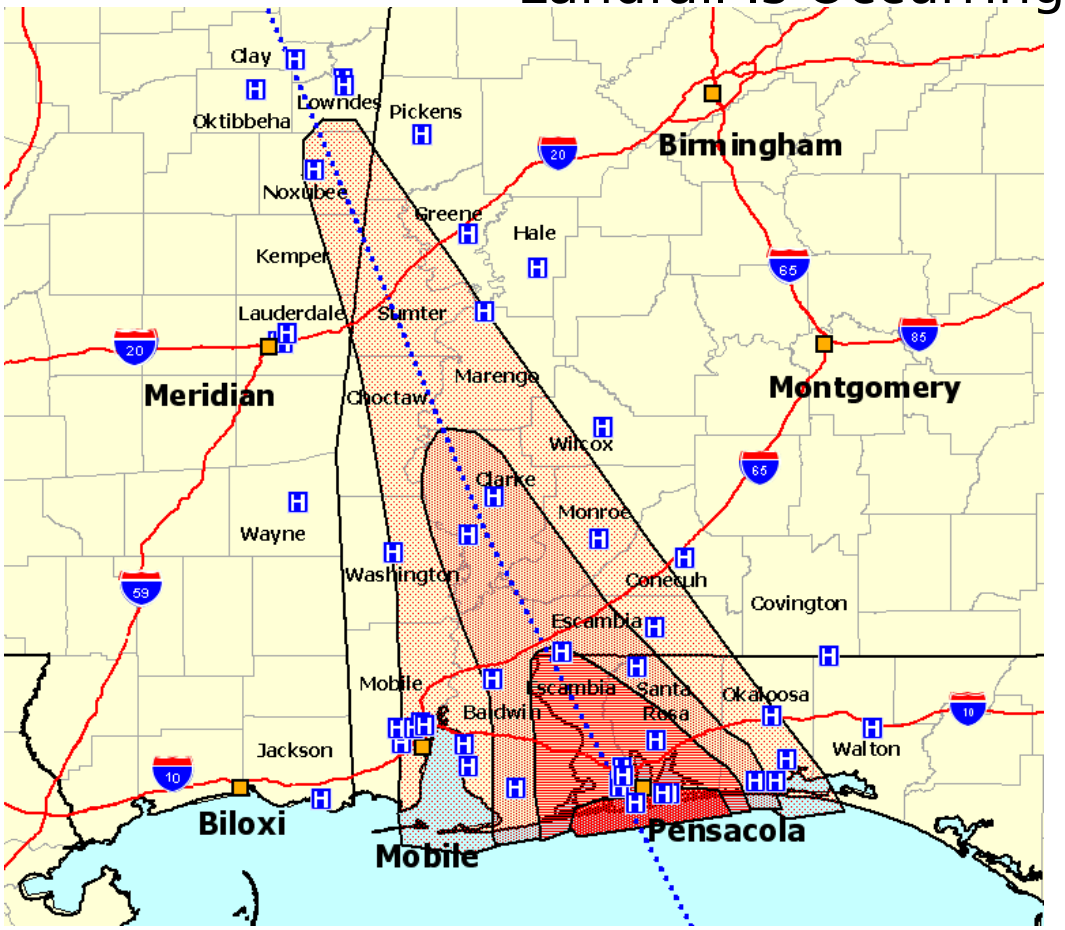

Most Probable Landfall Hospitals inside Hurricane Force Winds or within 25 miles of Hurricane Force Winds

Critical Infrastructure – Florida – 13 Alabama – 23 Mississippi - 13

This hurricane scenario is based on a Category 3 storm making landfall in near proximity to Pensacola, FL.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(1500 EDT 07/10/2005)*** forecast.

The number of hospitals included in this output are those that would be included within estimated hurricane force winds (data source: HAZUS MH).

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers	**Hurricane Dennis Hospitals**
Sources: HURREVAC LRL-DEBRIS	
Generated By: Terry Siemsen	
Generated Date 1500 EDT 07/10/2005	Page 16 of 18

Hurricane Dennis Police Stations

Landfall Is Occurring

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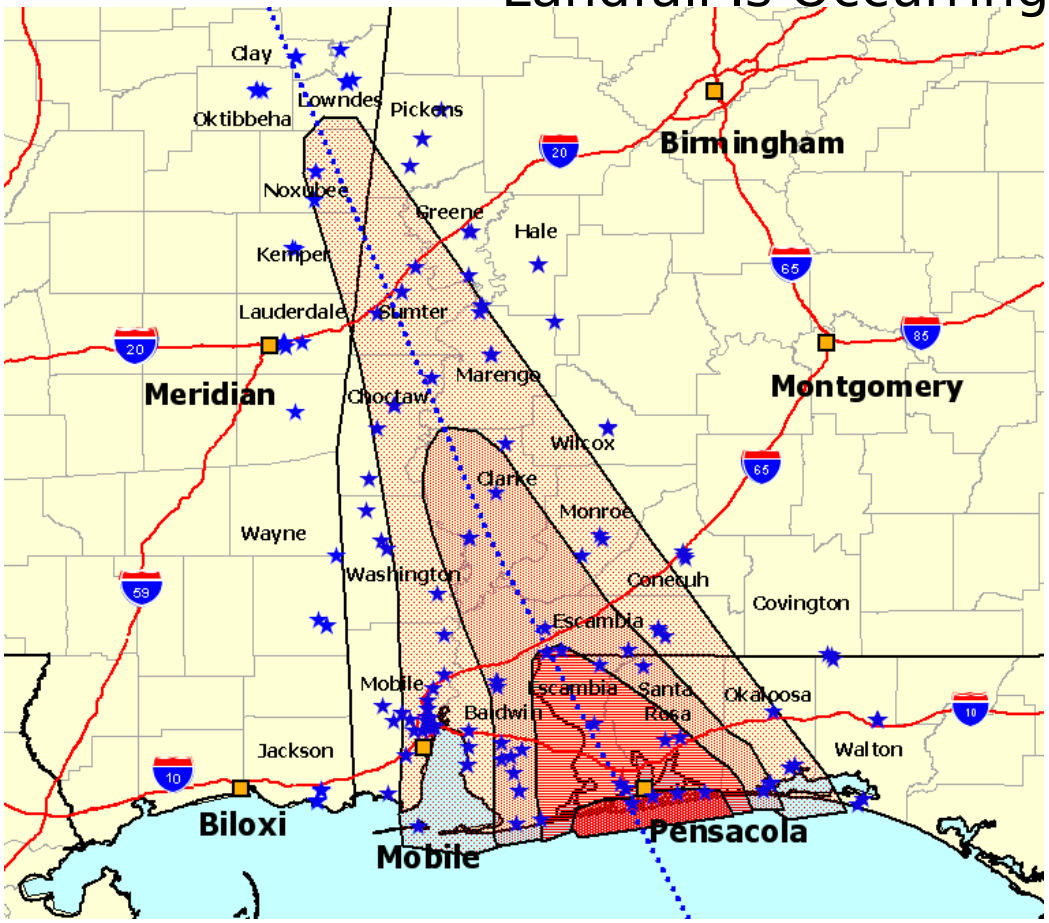

Most Probable Landfall Police Stations inside Hurricane Force Winds or within 25 miles of Hurricane Force Winds

Critical Infrastructure –
Florida – 23
Alabama – 88
Mississippi - 32

This hurricane scenario is based on a Category 3 storm making landfall in near proximity to Pensacola, FL.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(1500 EDT 07/10/2005)*** forecast.

The number of police stations included in this output are those that would be included within estimated hurricane force winds (data source: HAZUS MH).

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Police Stations

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
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Generated Date
1500 EDT
07/10/2005

Hurricane Dennis Fire Stations

Landfall Is Occurring

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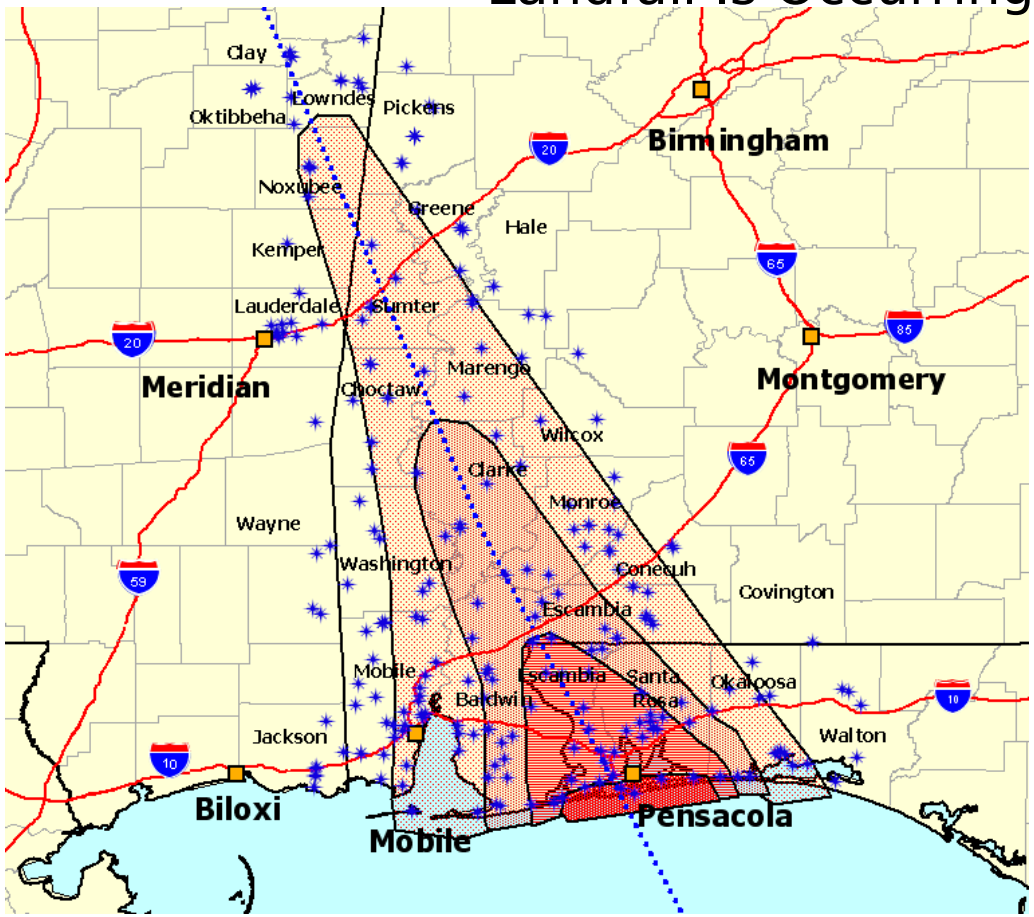

Most Probable Landfall Fire Stations inside Hurricane Force Winds or within 25 miles of Hurricane Force Winds

Critical Infrastructure –
Florida – 52
Alabama – 144
Mississippi - 46

This hurricane scenario is based on a Category 3 storm making landfall in near proximity to Pensacola, FL.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(1500 EDT 07/10/2005)*** forecast.

The number of fire stations included in this output are those that would be included within estimated hurricane force winds (data source: HAZUS MH).

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Fire Stations

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
1500 EDT
07/10/2005